



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu

Application No.: 09/940,063 Group: 1644

Filed: August 27, 2001 Examiner: Jessica H. Roark, Ph.D.

Confirmation No.: 3846

For: NOVEL ANTIBODIES AND LIGANDS FOR "BONZO"
CHEMOKINE RECEPTOR

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:

3-19-04 Carol M. Bowerman
Date Signature

Carol M. Bowerman
Typed or printed name of person signing certificate

DECLARATION UNDER 37 C.F.R. § 1.131

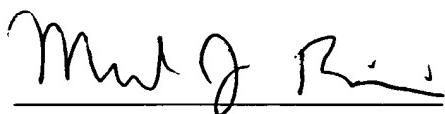
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

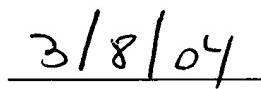
We, Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu, hereby declare and state:

1. We are coinventors of the invention claimed in the above-referenced patent application.
2. We produced in the United States, and were in possession of, several monoclonal antibodies that have binding specificity for Bonzo, including mAb 4A11, mAb 7A2, mAb 7F3 and mAb 9G2, before March 24, 1999. The monoclonal antibodies were produced and their binding specificity was assessed as described at page 61, line 4 through page 63, line 23 of the subject application.
3. Evidence is provided in the attached Exhibit, which consists of copies of pages 169 and 170 of a notebook maintained by inventor Kristine Murphy. In accordance with accepted practice, the dates on the copies of the notebook pages are masked. (M.P.E.P. § 715.07). However, pages 169 and 170 in the original notebook each bear a date of recordation that is prior to March 24, 1999.
4. The attached notebook pages describe a study that demonstrated that particular monoclonal antibodies have binding specificity for a mammalian Bonzo. The study involved staining transfected L1.2 cells that expressed hemagglutinin (HA)-tagged human Bonzo, or HA-tagged human Bob (a different chemokine receptor), with monoclonal antibodies produced by various hybridoma clones. Antibodies that bound to the transfected L1.2 cells were detected by fluorescence flow cytometry using a FITC-labeled goat anti-mouse antibody. As depicted in the fluorescence histograms on page 170, mAb 4A11, mAb 4F7, mAb 7A2, mAb 7F3, mAb 9G2 and mAb 10E3 bound to transfected L1.2 cells expressing HA-Bonzo, but did not bind to transfected L1.2 cell expressing HA-Bob. The hand-written annotations above the histograms on page 170 indicate the particular antibody that was used to stain the transfected L1.2 cells. Staining of transfected L1.2 cells that expressed HA-Bonzo is depicted by the filled peak, and staining of transfected L1.2 cells that expressed HA-Bob is depicted by the open peak.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements, if made, may jeopardize the validity of the application or any patent issuing thereon.



Michael J. Briskin, Ph.D.



Date

Kristine E. Murphy

Date

Alyson M. Wilbanks

Date

Lijun Wu, Ph.D.

Date



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu

Application No.: 09/940,063 Group: 1644

Filed: August 27, 2001 Examiner: Jessica H. Roark, Ph.D.

Confirmation No.: 3846

For: NOVEL ANTIBODIES AND LIGANDS FOR "BONZO"
CHEMOKINE RECEPTOR

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:

3-19-04 Carol M. Bowerman

Date Signature

Carol M. Bowerman

Typed or printed name of person signing certificate

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We, Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu, hereby declare and state:

1. We are coinventors of the invention claimed in the above-referenced patent application.
2. We produced in the United States, and were in possession of, several monoclonal antibodies that have binding specificity for Bonzo, including mAb 4A11, mAb 7A2, mAb 7F3 and mAb 9G2, before March 24, 1999. The monoclonal antibodies were produced and their binding specificity was assessed as described at page 61, line 4 through page 63, line 23 of the subject application.
3. Evidence is provided in the attached Exhibit, which consists of copies of pages 169 and 170 of a notebook maintained by inventor Kristine Murphy. In accordance with accepted practice, the dates on the copies of the notebook pages are masked. (M.P.E.P. § 715.07). However, pages 169 and 170 in the original notebook each bear a date of recordation that is prior to March 24, 1999.
4. The attached notebook pages describe a study that demonstrated that particular monoclonal antibodies have binding specificity for a mammalian Bonzo. The study involved staining transfected L1.2 cells that expressed hemagglutinin (HA)-tagged human Bonzo, or HA-tagged human Bob (a different chemokine receptor), with monoclonal antibodies produced by various hybridoma clones. Antibodies that bound to the transfected L1.2 cells were detected by fluorescence flow cytometry using a FITC-labeled goat anti-mouse antibody. As depicted in the fluorescence histograms on page 170, mAb 4A11, mAb 4F7, mAb 7A2, mAb 7F3, mAb 9G2 and mAb 10E3 bound to transfected L1.2 cells expressing HA-Bonzo; but did not bind to transfected L1.2 cell expressing HA-Bob. The hand-written annotations above the histograms on page 170 indicate the particular antibody that was used to stain the transfected L1.2 cells. Staining of transfected L1.2 cells that expressed HA-Bonzo is depicted by the filled peak, and staining of transfected L1.2 cells that expressed HA-Bob is depicted by the open peak.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements, if made, may jeopardize the validity of the application or any patent issuing thereon.

Michael J. Briskin, Ph.D.

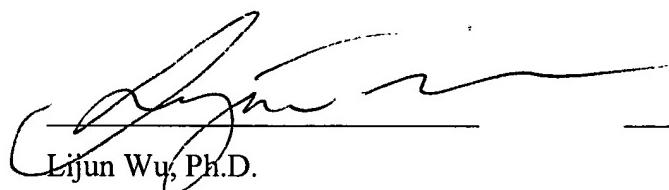
Date

Kristine E. Murphy

Date

Alyson M. Wilbanks

Date

A handwritten signature in black ink, appearing to read "Lijun Wu".

Lijun Wu, Ph.D.

3/11/04

Date



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu

Application No.: 09/940,063 Group: 1644

Filed: August 27, 2001 Examiner: Jessica H. Roark, Ph.D.

Confirmation No.: 3846

For: NOVEL ANTIBODIES AND LIGANDS FOR "BONZO"
CHEMOKINE RECEPTOR

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:

3-19-04 Carol M. Bowerman

Date Signature

Carol M. Bowerman

Typed or printed name of person signing certificate

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We, Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu, hereby declare and state:

1. We are coinventors of the invention claimed in the above-referenced patent application.
2. We produced in the United States, and were in possession of, several monoclonal antibodies that have binding specificity for Bonzo, including mAb 4A11, mAb 7A2, mAb 7F3 and mAb 9G2, before March 24, 1999. The monoclonal antibodies were produced and their binding specificity was assessed as described at page 61, line 4 through page 63, line 23 of the subject application.
3. Evidence is provided in the attached Exhibit, which consists of copies of pages 169 and 170 of a notebook maintained by inventor Kristine Murphy. In accordance with accepted practice, the dates on the copies of the notebook pages are masked. (M.P.E.P. § 715.07). However, pages 169 and 170 in the original notebook each bear a date of recordation that is prior to March 24, 1999.
4. The attached notebook pages describe a study that demonstrated that particular monoclonal antibodies have binding specificity for a mammalian Bonzo. The study involved staining transfected L1.2 cells that expressed hemagglutinin (HA)-tagged human Bonzo, or HA-tagged human Bob (a different chemokine receptor), with monoclonal antibodies produced by various hybridoma clones. Antibodies that bound to the transfected L1.2 cells were detected by fluorescence flow cytometry using a FITC-labeled goat anti-mouse antibody. As depicted in the fluorescence histograms on page 170, mAb 4A11, mAb 4F7, mAb 7A2, mAb 7F3, mAb 9G2 and mAb 10E3 bound to transfected L1.2 cells expressing HA-Bonzo, but did not bind to transfected L1.2 cell expressing HA-Bob. The hand-written annotations above the histograms on page 170 indicate the particular antibody that was used to stain the transfected L1.2 cells. Staining of transfected L1.2 cells that expressed HA-Bonzo is depicted by the filled peak, and staining of transfected L1.2 cells that expressed HA-Bob is depicted by the open peak.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements, if made, may jeopardize the validity of the application or any patent issuing thereon.

Michael J. Briskin, Ph.D.

Date


Kristine E. Hogan
(nee' Murphy)

3/12/04

Date

Alyson M. Wilbanks

Date

Lijun Wu, Ph.D.

Date



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu

Application No.: 09/940,063 Group: 1644

Filed: August 27, 2001 Examiner: Jessica H. Roark, Ph.D.

Confirmation No.: 3846

For: NOVEL ANTIBODIES AND LIGANDS FOR "BONZO"
CHEMOKINE RECEPTOR

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or is being facsimile transmitted to the United States Patent and Trademark Office on:

3-19-04 Carol M. Bowerman

Date Signature

Carol M. Bowerman

Typed or printed name of person signing certificate

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We, Michael J. Briskin, Kristine E. Murphy, Alyson M. Wilbanks and Lijun Wu, hereby declare and state:

1. We are coinventors of the invention claimed in the above-referenced patent application.
2. We produced in the United States, and were in possession of, several monoclonal antibodies that have binding specificity for Bonzo, including mAb 4A11, mAb 7A2, mAb 7F3 and mAb 9G2, before March 24, 1999. The monoclonal antibodies were produced and their binding specificity was assessed as described at page 61, line 4 through page 63, line 23 of the subject application.
3. Evidence is provided in the attached Exhibit, which consists of copies of pages 169 and 170 of a notebook maintained by inventor Kristine Murphy. In accordance with accepted practice, the dates on the copies of the notebook pages are masked. (M.P.E.P. § 715.07). However, pages 169 and 170 in the original notebook each bear a date of recordation that is prior to March 24, 1999.
4. The attached notebook pages describe a study that demonstrated that particular monoclonal antibodies have binding specificity for a mammalian Bonzo. The study involved staining transfected L1.2 cells that expressed hemagglutinin (HA)-tagged human Bonzo, or HA-tagged human Bob (a different chemokine receptor), with monoclonal antibodies produced by various hybridoma clones. Antibodies that bound to the transfected L1.2 cells were detected by fluorescence flow cytometry using a FITC-labeled goat anti-mouse antibody. As depicted in the fluorescence histograms on page 170, mAb 4A11, mAb 4F7, mAb 7A2, mAb 7F3, mAb 9G2 and mAb 10E3 bound to transfected L1.2 cells expressing HA-Bonzo, but did not bind to transfected L1.2 cell expressing HA-Bob. The hand-written annotations above the histograms on page 170 indicate the particular antibody that was used to stain the transfected L1.2 cells. Staining of transfected L1.2 cells that expressed HA-Bonzo is depicted by the filled peak, and staining of transfected L1.2 cells that expressed HA-Bob is depicted by the open peak.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code, and that such willful false statements, if made, may jeopardize the validity of the application or any patent issuing thereon.

Michael J. Briskin, Ph.D.

Date

Kristine E. Murphy

Date

Alyson M. Wilbanks

Alyson M. Wilbanks

3/12/04

Date

Lijun Wu, Ph.D.

Date

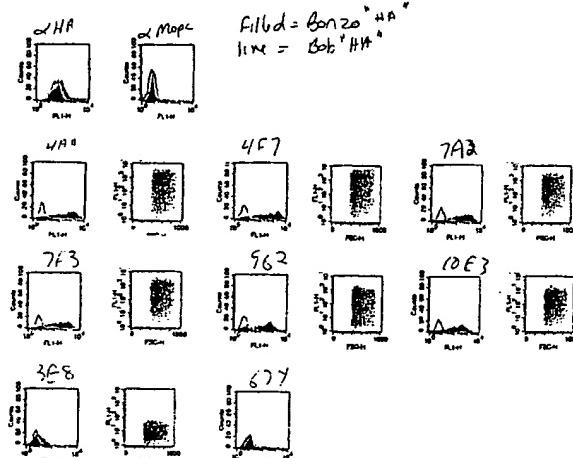
170

Project No. _____

Book No. _____

TITLE Cont

From Page No. _____



Results - 4A1, 4F7, 7A2, 7F3, 9G2 + 10E3

all look good - real good !!!

I will subclone all six clones by
limiting dilution in HAT media

- 1 plate 10 / well
- 2 plates 1 / well
- 2 plates 0.5 / well
- 1 plate 0.1 / well

To Page No. _____

Witnessed & Understood by me,

Date

Invented by

Date

Tammy Smith

Recorded by

Kathleen Murphy